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Figure 1A

Genomic nucleotide sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:1)

CTTGTATCCTTCTCTTAACCAATAAAAAAGAAAGAAAGATCAATTTGATAAATTTCTCAGC
CACAAATTCTACATTTAGGTTTTAGCATATCGAAGGCTCAATCACAAATACAATAGATAGAC
TAGAGATTCCAGCGTCACGTGAGTTTTATCTATAAATAAAGGACCAAAAATCAAATCCCGAG
GGCATTTTCGTAATCCAACATAAAACCCTTAAACTTCAAGTCTCATTTTTTAAACAAATCATG
TTCACAAGTCTCTTCTTCTTCTGTTTTCTCTATCTCTTGCTCATCTTTCTCCTGAACCATG
GCGGCGGCAACAACAACAACAACATCTTCTTCGATCTCCTTCTCCACCAAACCATCTCC
TTCCTCCTCCAAATCACCATTACCAATCTCCAGATTCTCCCTCCCATTCTCCCTAAACCCCA
ACAAATCATCCTCCTCCTCCCGCCGCGCGGTATCAAATCCAGCTCTCCCTCCTCCATCTCC
GCCGTGCTCAACACAACCACCAATGTCACAACCACTCCCTCTCCAACCAAACCTACCAAACC
CGAAACATTCTCTCCCGATTCTGCTCCAGATCAACCCCGCAAAGGCGCTGATATCCTCGTCG
AAGCTTTAGAACGTCAAGGCGTAGAAACCGTATTCGCTTACCCTGGAGGTGCATCAATGGAG
ATTCACCAAGCCTTAACCCGCTCTTCCTCAATCCGTAACGTCCTTCCCTCGTCACGAACAAGG
AGGTGTATTCTGCAGCAGAAGGATACGCTCGATCCTCAGGTAAACCAGGTATCTGTATAGCCA
CTTCAGGTCCCGGAGCTACAAATCTCGTTAGCGGATTAGCCGATGCGTTGTTAGATAGTGTT
CCTCTTGTAGCAATCACAGGACAAGTCCCTCGTCGTATGATTGGTACAGATGCGTTTCAAGA
GACTCCGATTGTTGAGGTAAACGCGTTTCGATTACGAAGCATAACTATCTTGTGATGGATGTTG
AAGATATCCCTAGGATTATTGAGGAAGCTTTCTTTTTTAGCTACTTCTGGTAGACCTGGACCT
GTTTTGGTTGATGTTCTTAAAGATATTCAACAACAGCTTGCGATTCCCTAATTGGGAACAGGC
TATGAGATTACCTGGTTATATGTCTAGGATGCCTAAACCTCCGGAAGATTCTCATTTGGAGC
AGATTGTTAGGTTGATTTCTGAGTCTAAGAAGCCTGTGTTGTATGTTGGTGGTGGTTGTTTG
AATTCCTAGCGATGAATTGGGTAGGTTTGTTGAGCTTACGGGGATCCCTGTTGCGAGTACGTT
GATGGGGCTGGGATCTTATCCTTGTGATGATGAGTTGTCGTTACATATGCTTGGAATGCATG
GGACTGTGTATGCAAATTACGCTGTGGAGCATAGTGATTTGTTGTTGGCGTTTGGGGTAAGG
TTTGATGATCGTGTCACGGGTAAAGCTTGAGGCTTTTGCTAGTAGGGCTAAGATTGTTTCATAT
TGATATTGACTCGGCTGAGATTGGGAAGAATAAGACTCCTCATGTGTCTGTGTGTGGTGATG
TTAAGCTGGCTTTGCAAGGGATGAATAAGGTTCTTGAGAACCGAGCGGAGGAGCTTAAGCTT
GATTTTGGAGTTTGGAGGAATGAGTTGAACGTACAGAAACAGAAGTTTCCGTTGAGCTTTAA
GACGTTTGGGGAAGCTATTCCTCCACAGTATGCGATTAAAGGTCCTTGATGAGTTGACTGATG
GAAAAGCCATAATAAGTACTGGTGTCGGGCAACATCAAATGTGGGCGGCGCAGTTCTACAAT
TACAAGAAACCAAGGCAGTGGCTATCATCAGGAGGCCTTGAGCTATGGGATTTGGACTTCC
TGCTGCGATTGGAGCGTCTGTTGCTAACCCTGATGCGATAGTTGTGGATATTGACGGAGATG
GAAGCTTTATAATGAATGTGCAAGAGCTAGCCACTATTCGTGTAGAGAATCTTCCAGTGAAG
GTACTTTTATTAAACAACCAGCATCTTGGCATGGTTATGCAATGGGAAGATCGGTTCTACAA
AGCTAACCGAGCTCACACATTTCTCGGGGATCCGGCTCAGGAGGACGAGATATTCCTCGAACA
TGTTGCTGTTTGCAGCAGCTTGCGGGATTCCAGCGGCGAGGGTGACAAAGAAAGCAGATCTC
CGAGAAGCTATTTCAGACAATGCTGGATACACCAGGACCTTACCTGTTGGATGTGATTTGTCC
GCACCAAGAACATGTGTTGCCGATGATCCCGAATGGTGGCACTTTCAACGATGTCATAACGG
AAGGAGATGGCCGGATTAAATACTGAGAGATGAAACCGGTGATTATCAGAACCTTTTATGGT
CTTTGTAT

Figure 1B

Coding nucleotide sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:2)

ATGGCGGCGGCAACAACAACAACAACATCTTCTTCGATCTCCTTCTCCACCAAACCATC
TCCTTCTCCTCCTCAAATCACCATTACCAATCTCCAGATTCTCCCTCCCATTCTCCCTAAACC
CCAACAAATCATCCTCCTCCTCCCGCCGCCGCGGTATCAAATCCAGCTCTCCCTCCTCCATC
TCCGCCGTGCTCAACACAACCACCAATGTCAACAACCACTCCCTCTCCAACCAAACCTACCAA
ACCCGAAACATTATCTCCCGATTTCGCTCCAGATCAACCCCGCAAAGGCGCTGATATCCTCG
TCGAAGCTTTAGAACGTCAAGGCGTAGAAACCGTATTTCGCTTACCCTGGAGGTGCATCAATG
GAGATTCACCAAGCCTTAACCCGCTCTTCCTCAATCCGTAACGTCCTTCCTCGTCACGAACA
AGGAGGTGTATTTCGCAGCAGAAGGATACGCTCGATCCTCAGGTAAACCAGGTATCTGTATAG
CCTTCAGGTCCCGGAGCTACAAATCTCGTTAGCGGATTAGCCGATGCGTTGTTAGATAGT
GTTCTCTTGTAGCAATCACAGGACAAGTCCCTCGTCGTATGATTGGTACAGATGCGTTTCA
AGAGACTCCGATTGTTGAGGTAACGCGTTTCGATTACGAAGCATAACTATCTTGTGATGGATG
TTGAAGATATCCCTAGGATTATTGAGGAAGCTTTCTTTTCTAGCTACTTCTGGTAGACCTGGA
CCTGTTTTGGTTGATGTTCTAAAGATATTCAACAACAGCTTGCGATTCTTAATTGGGAACA
GGCTATGAGATTACCTGGTTATATGTCTAGGATGCCTAAACCTCCGGAAGATTCTCATTTGG
AGCAGATTGTTAGGTTGATTTCTGAGTCTAAGAAGCCTGTGTTGTATGTTGGTGGTGGTTGT
TTGAATTCTAGCGATGAATTGGGTAGGTTTGTGAGCTTACGGGGATCCCTGTTGCGAGTAC
GTTGATGGGGCTGGGATCTTATCCTTGTGATGATGAGTTGTCGTTACATATGCTTGGGAATGC
ATGGGACTGTGTATGCAAATTACGCTGTGGAGCATAGTGATTTGTTGTTGGCGTTTGGGGTA
AGGTTTGATGATCGTGTACGGGTAAGCTTGAGGCTTTTGCTAGTAGGGCTAAGATTGTTCA
TATTGATATTGACTCGGCTGAGATTGGGAAGAATAAGACTCCTCATGTGTCTGTGTGTGGTG
ATGTTAAGCTGGCTTTGCAAGGGATGAATAAGGTTCTTGAGAACCGAGCGGAGGAGCTTAAG
CTTGATTTTGGAGTTTGGAGGAATGAGTTGAACGTACAGAAACAGAAGTTTCCGTTGAGCTT
TAAGACGTTTGGGGAAGCTATTCCTCCACAGTATGCGATTAAAGGTCCTTGATGAGTTGACTG
ATGGAAAAGCCATAATAAGTACTGGTGTCTGGGCAACATCAAATGTGGGCGGCGCAGTTCTAC
AATTACAAGAAACCAAGGCAGTGGCTATCATCAGGAGGCCTTGGAGCTATGGGATTTGGACT
TCCTGCTGCGATTGGAGCGTCTGTTGCTAACCTGATGCGATAGTTGTGGATATTGACGGAG
ATGGAAGCTTTATAATGAATGTGCAAGAGCTAGCCACTATTCGTGTAGAGAATCTTCCAGTG
AAGGTACTTTTATTAAACAACCAGCATCTTGGCATGGTTATGCAATGGGAAGATCGGTTCTA
CAAAGCTAACCGAGCTCACACATTTCTCGGGGATCCGGCTCAGGAGGACGAGATATTCCCGA
ACATGTTGCTGTTTGCAGCAGCTTGCGGGATTCCAGCGGCGAGGGTGACAAAGAAAGCAGAT
CTCCGAGAAGCTATTCAGACAATGCTGGATACACCAGGACCTTACCTGTTGGATGTGATTTG
TCCGCACCAAGAACATGTGTTGCCGATGATCCCGAATGGTGGCACTTTCAACGATGTCATAA
CGGAAGGAGATGGCCGGATTAAATAC

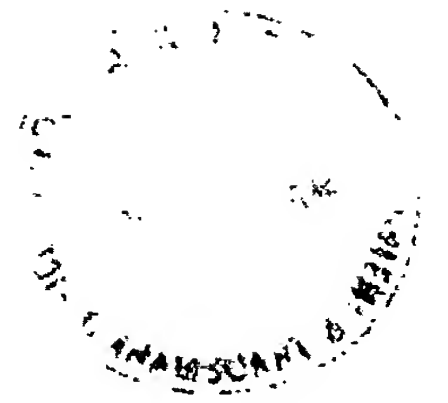
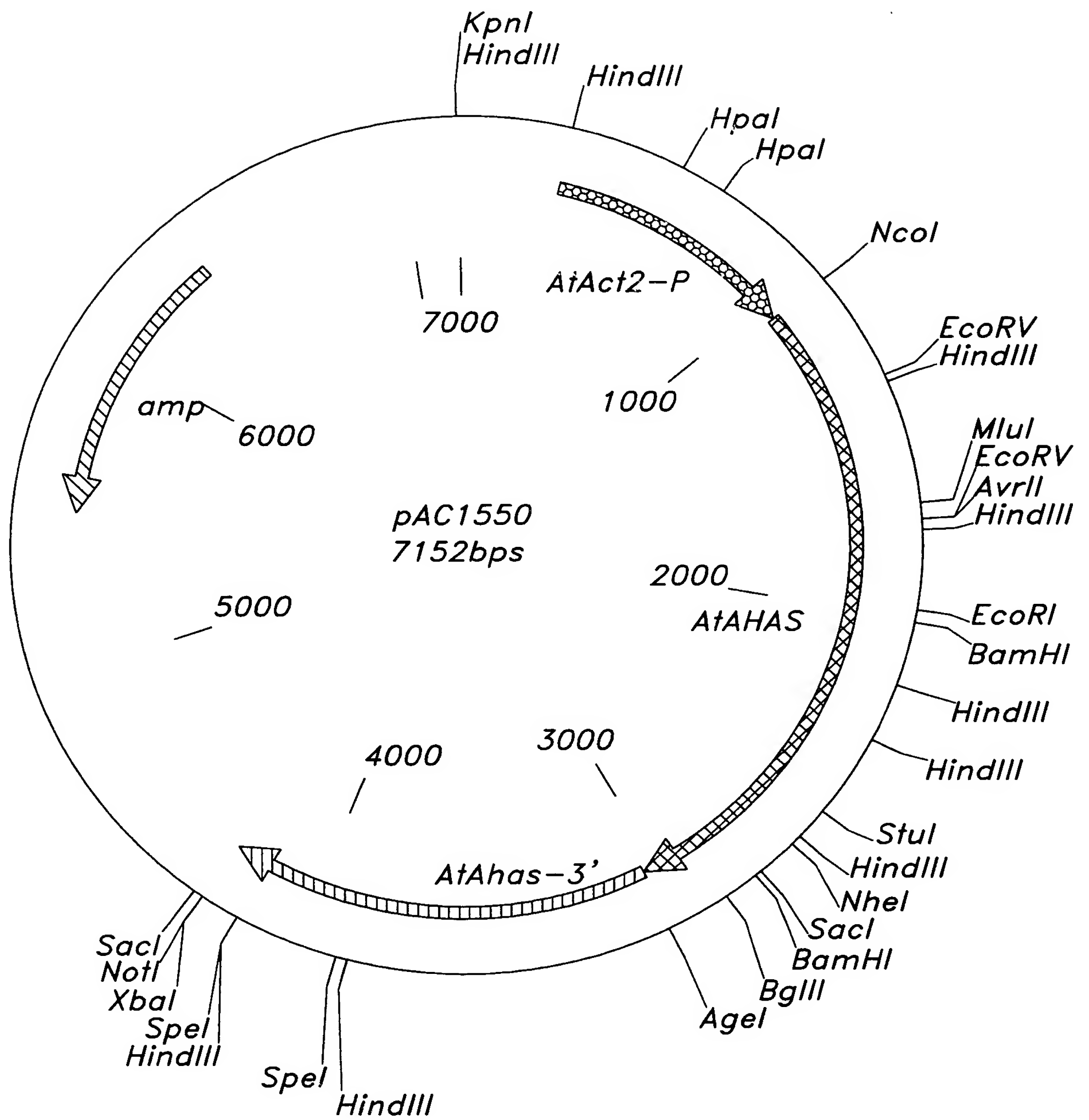


Figure 1C

Amino acid sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:3)

MAAATTTTTTSSSISFSTKPSPSSSKSPLPISRFSLPFSLNPNKSSSSSRRRGIKSSSPSSIS
AVLNTTNTVTTTPSPTKPTKPETFISRFPDQPRKGADILVEALERQGVETVFAYPGG
ASMEIHQALTRSSSIRNVLP RHEQGGVFAAEGYARSSGKPGICIATSGPGATNLVSGL
ADALLDSVPLVAITGQVPRRMIGTDAFQETPIVEVTR SITKHNYLVMDVEDIPRIIEEAF
FLATSGRPGPVLVDVPKDIQQQLAIPNWEQAMRLPGYMSRMPKPPEDSHLEQIVRLIS
ESKKPVLYVGGGCLNSSDELGRFVELTGIPVASTLMGLGSPCDDDEL SLHMLGMHGT
VYANYAVEHSDLLAFGVRFDDRVTGKLEAFASRAKIVHIDIDSAEIGKNKTPHVSVC
GDVKLALQGMNKVLENRAEELKLDFGVWRNELNVQKQKFPLSFKTFGEAIPPQYAI
KVLDELTDGKAISTGVGQHQMWA AQFYNYKKPROWLSSGGLGAMGFGLPAAIGAS
VANPDAIVVDIDGDGSFIMNVQELATIRVENLPVKVLLNNQHLGMVMQWEDRFYK
ANRAHTFLGDPAQEDEIFPNMLLFAAACGIPAARVTKKADLREAIQTMLDTPGPYLL
DVICPHQEHLVPMIPNGGTFNDVITEGDGRIKY

**FIG 2**

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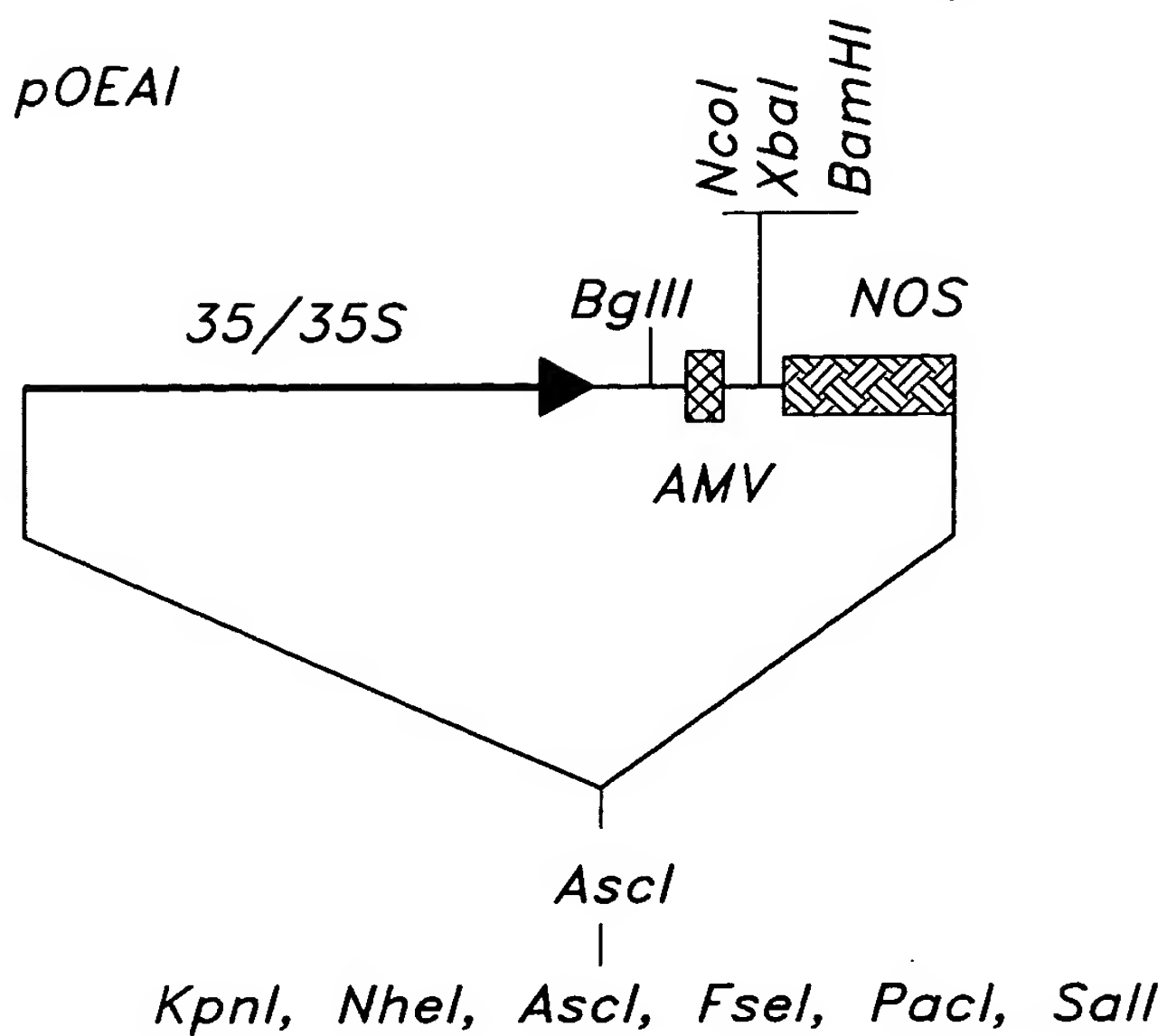


FIG 3A

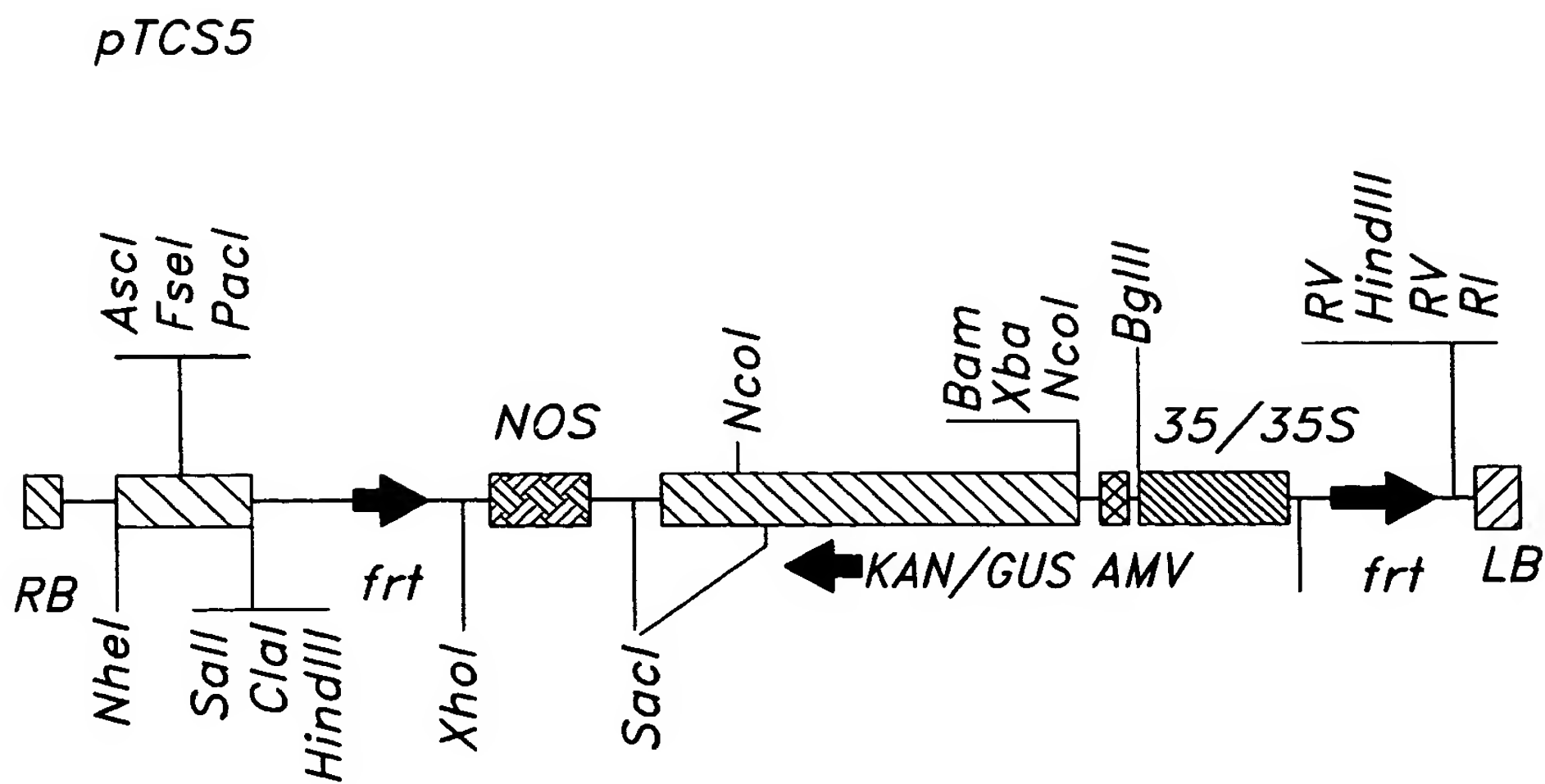
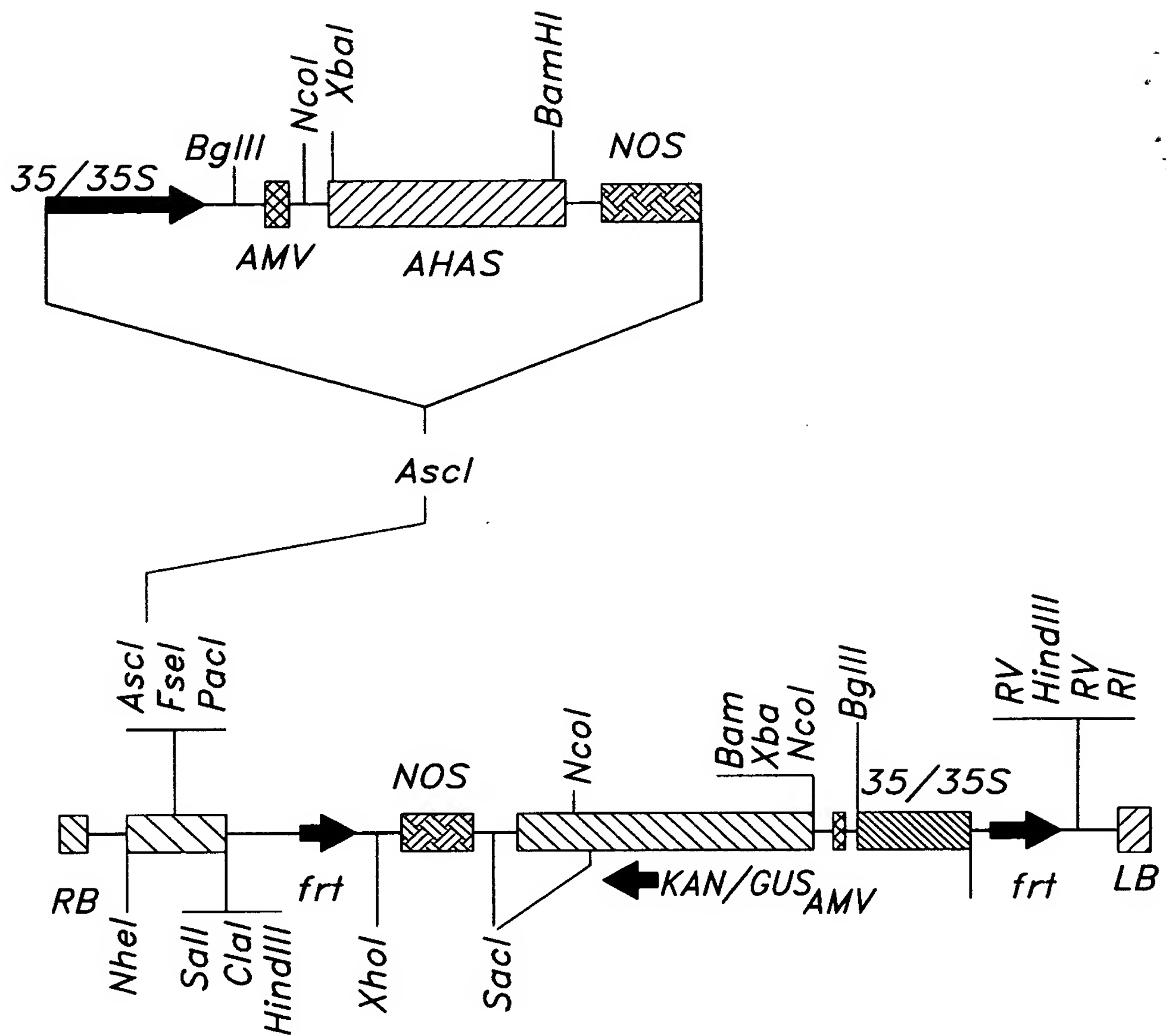


FIG 3B

**FIG 3C**